Some example Spatially-Associated: **Health Effects**

Endicott, NY - **TCE** plume (70 block) area:

- Statistically elevated rates of TCE-assoc.:
- Cancers (e.g., Kidney; ATSDR, 2006)
- **Non-**cancer **effects -** (IA = 0.18 140 ug/m³)
 - 1090 births 1978-2002 (~2615 residents)

+ 23%	Small for gestational age*	117
+ 36%	Low birth weight**	76
+ 68%	Term low birth weight	37
+ 215%	Cardiac defects***	15
+ 240%	Major cardiac defects	6
+ 491%	Conotruncal ¹ defects	3

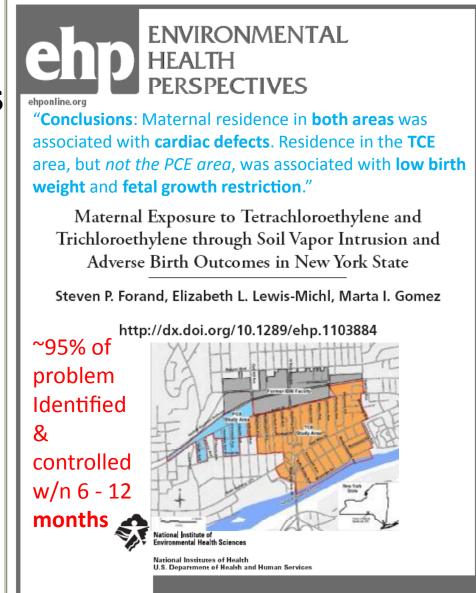
Weeks of Pregnancy & Fetal Heart Development

Week 3 15-21 days from fertilization

"Primitive heart tube is forming"

Week 4 22-28 days from fertilization

"The heart bulges, further develops, and **begins to beat** in a regular rhythm."



Similar findings for: *SGA in NC, MA; ** LBW in NJ, AZ; ***CD in NJ, AZ, WI

1 "abnormal formation of the outflow tracts of the heart"

(RR%) Rate Ratios in percent relative to the rest of NY state (excluding NYC)